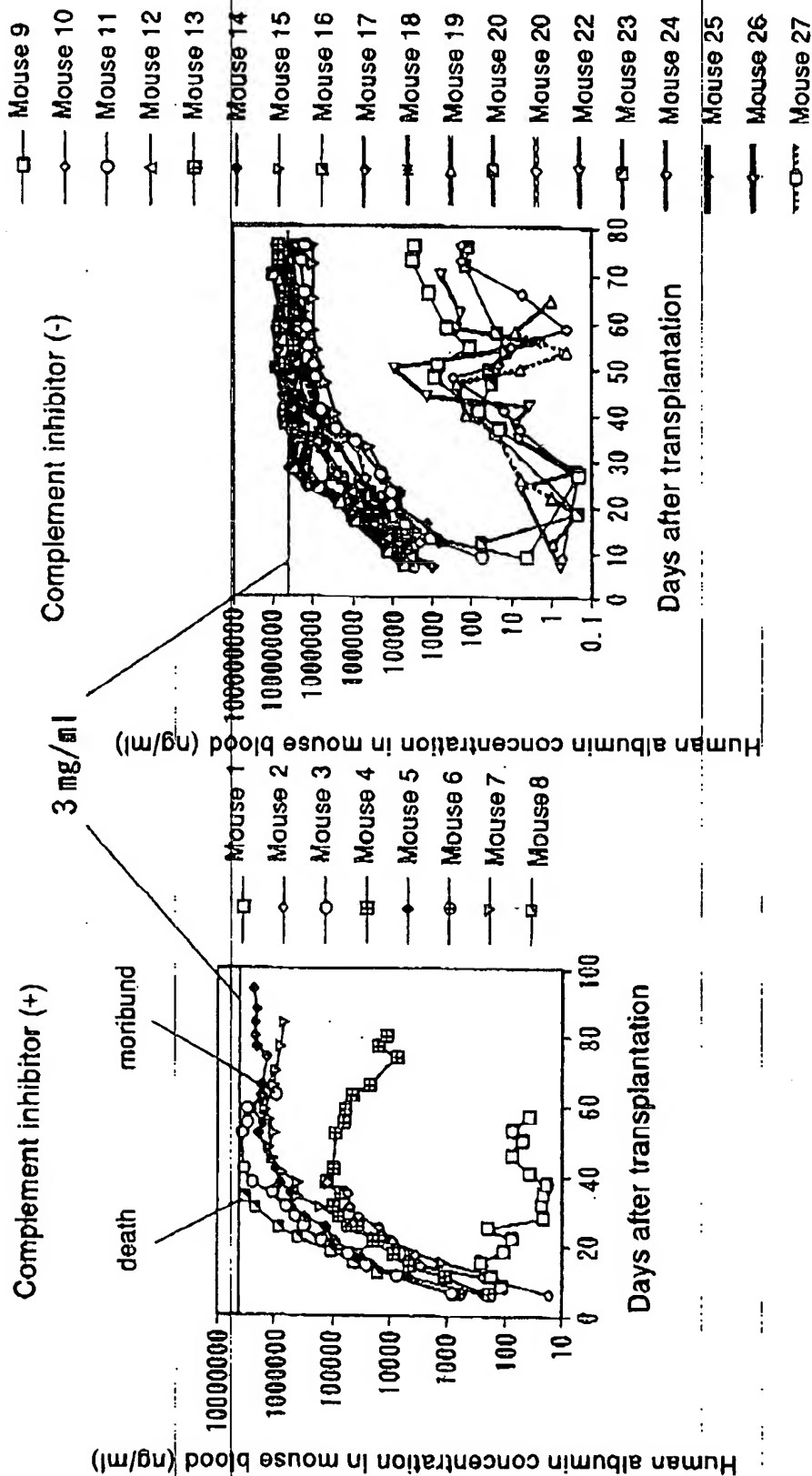


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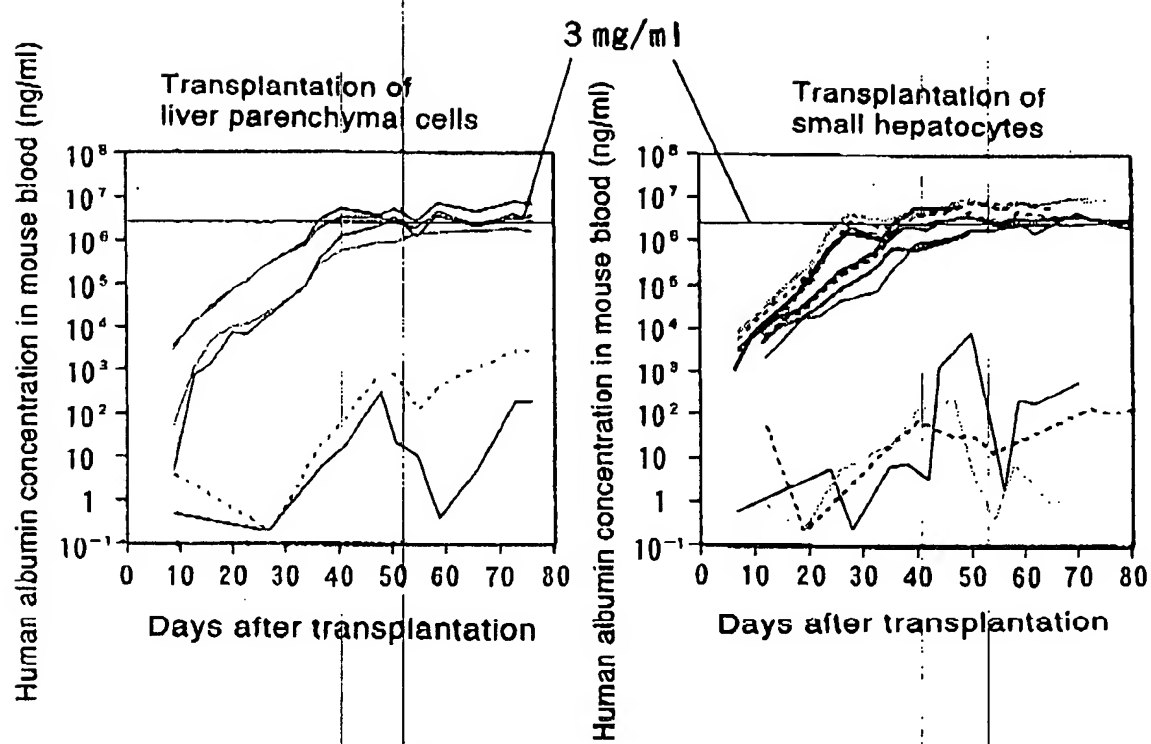
Fig. 1



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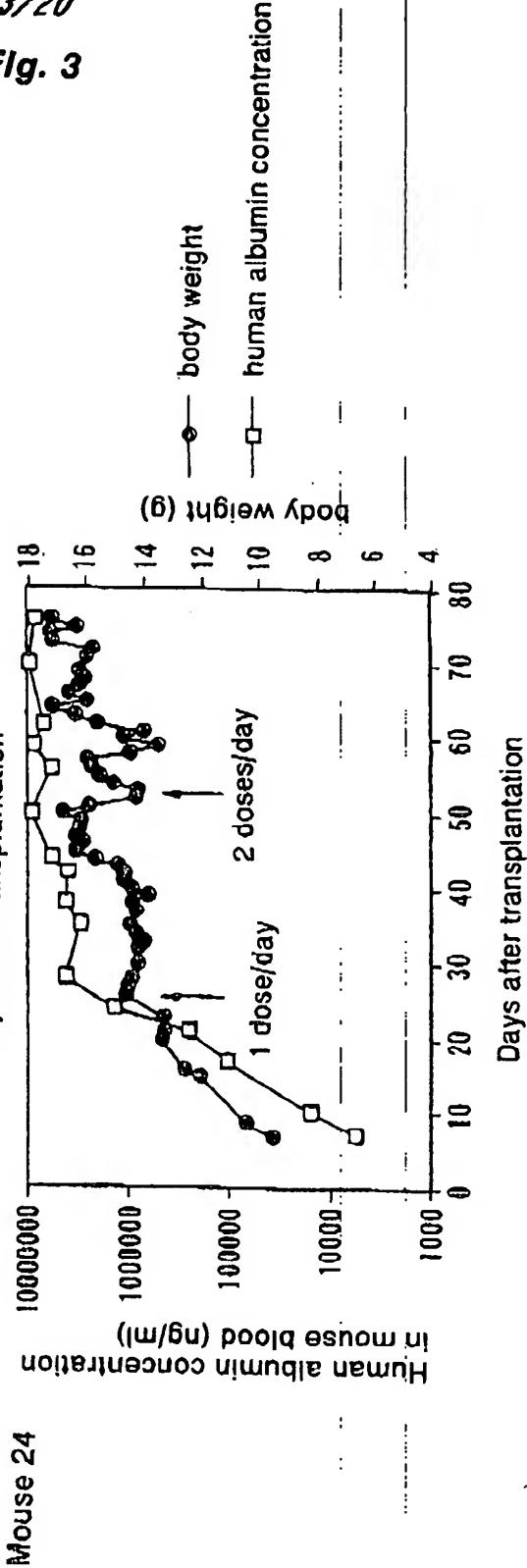
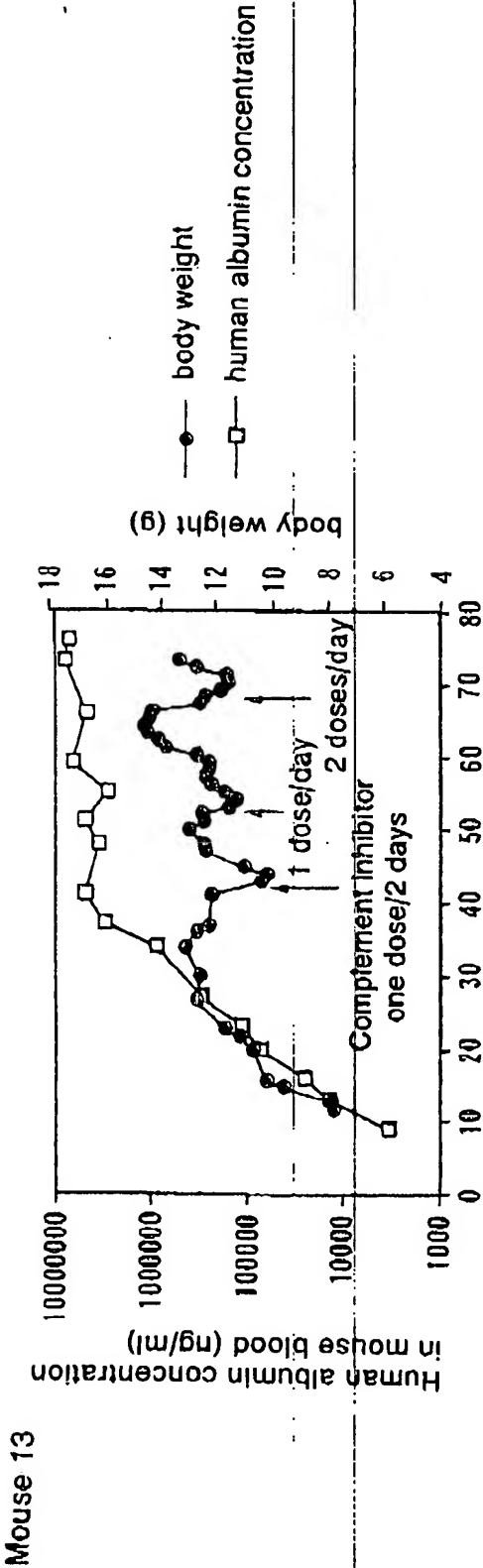
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Fig. 2



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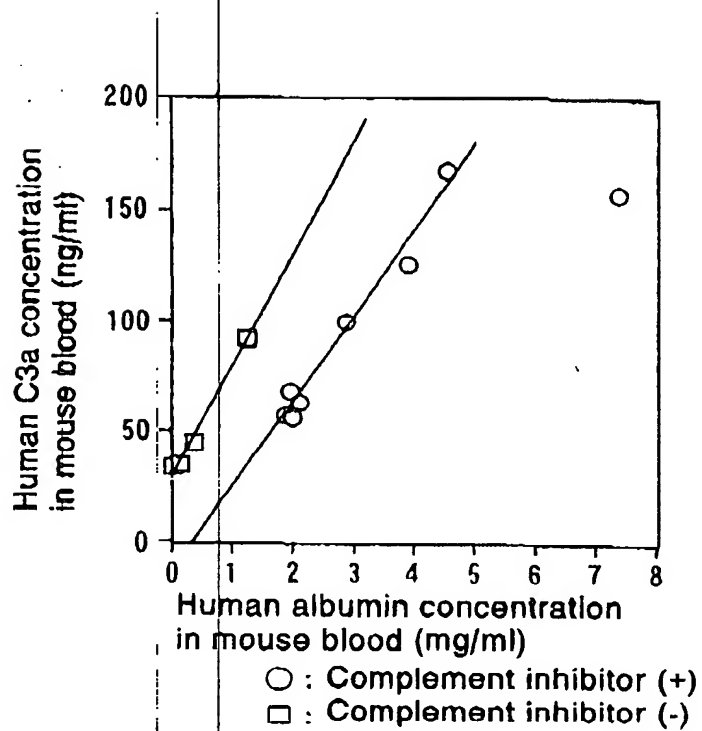
3/20  
Fig. 3



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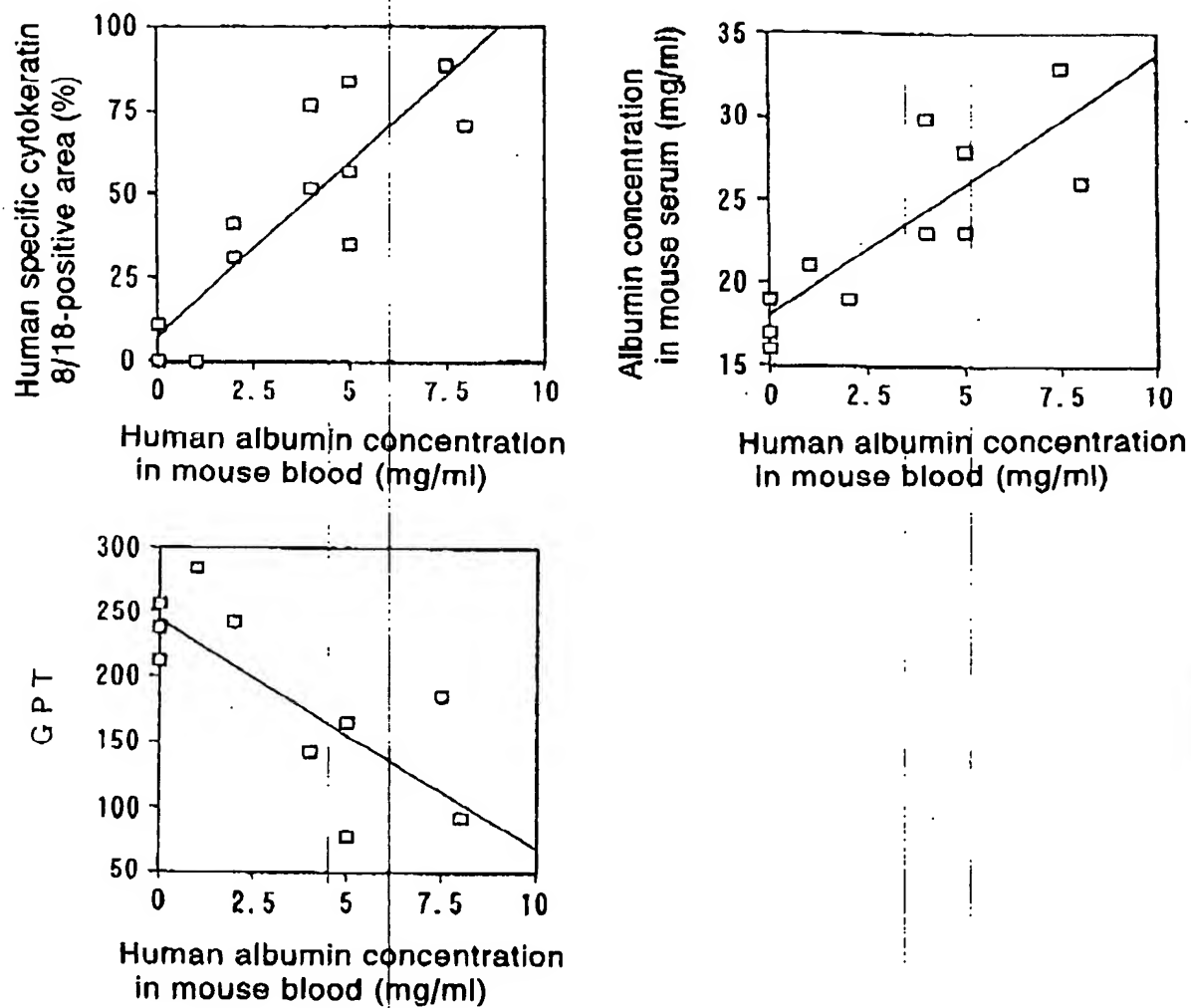
Fig. 4



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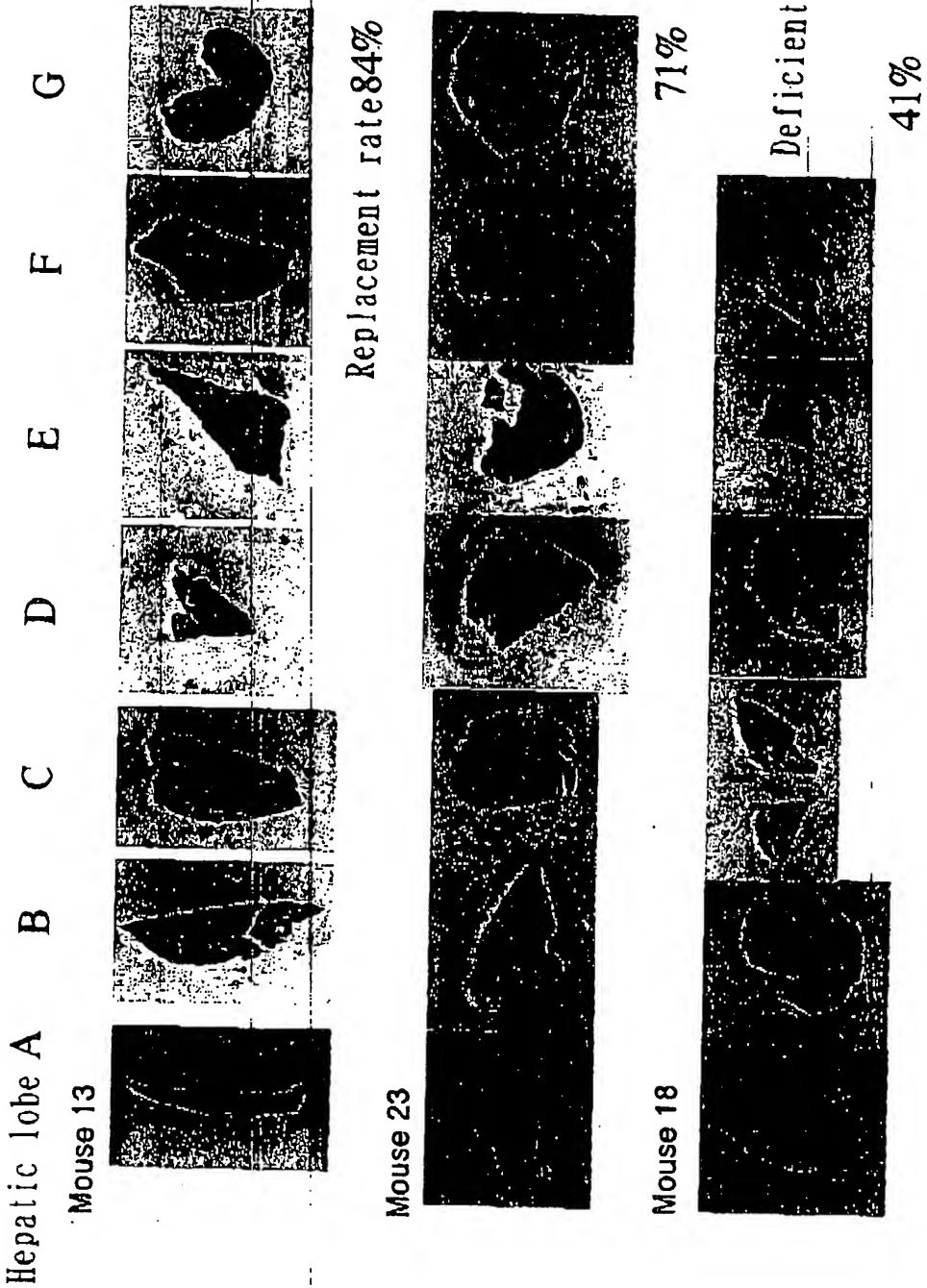
Fig. 5



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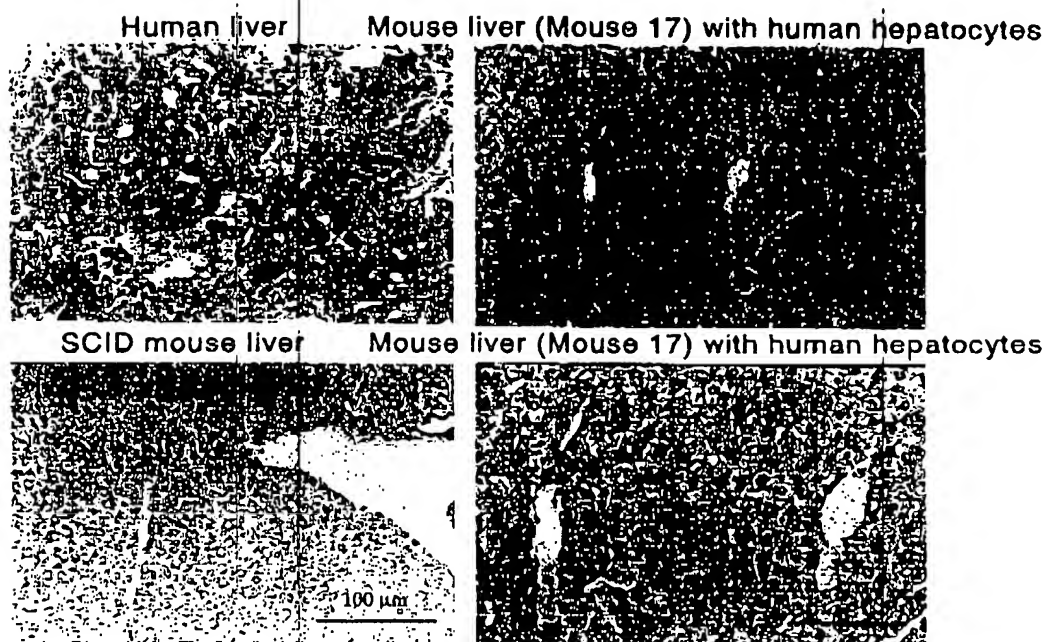
Fig. 6



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**Fig. 7**



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Fig. 8

Human liver microsome 89 0 52 11 71 (replacement rate of h-hepatocytes %)  
100 50 25 12.5 (%) 17 19 21 22 23 (mouse No.)

50 kD →

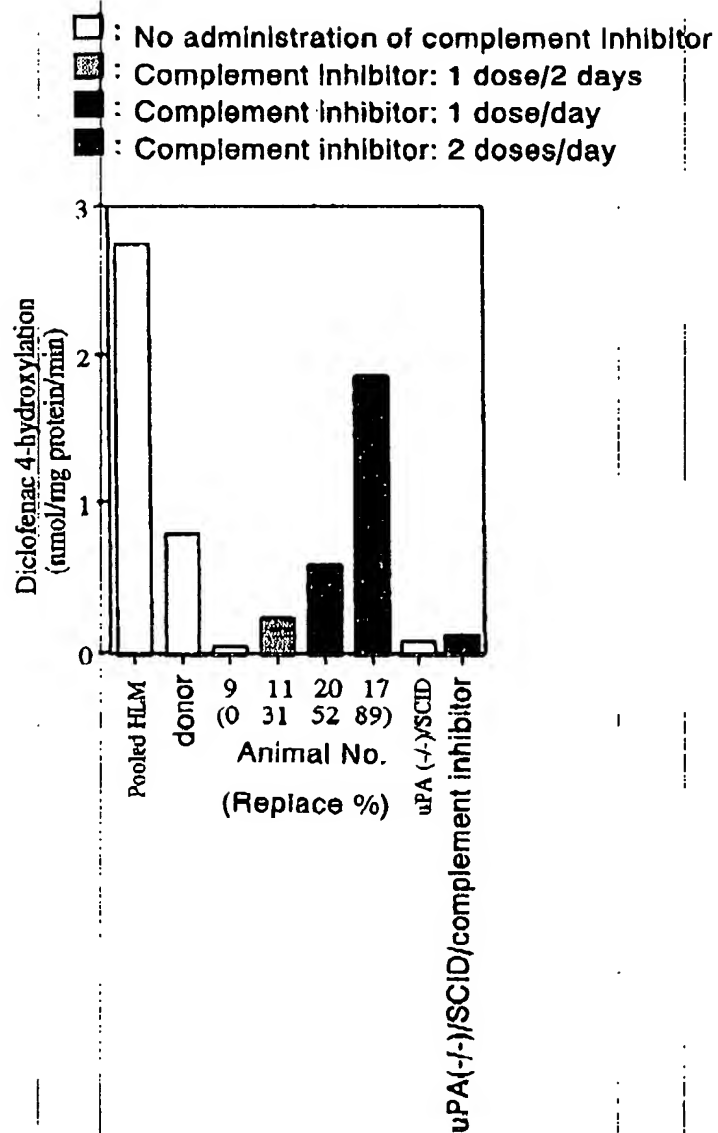
◀ CYP2C9



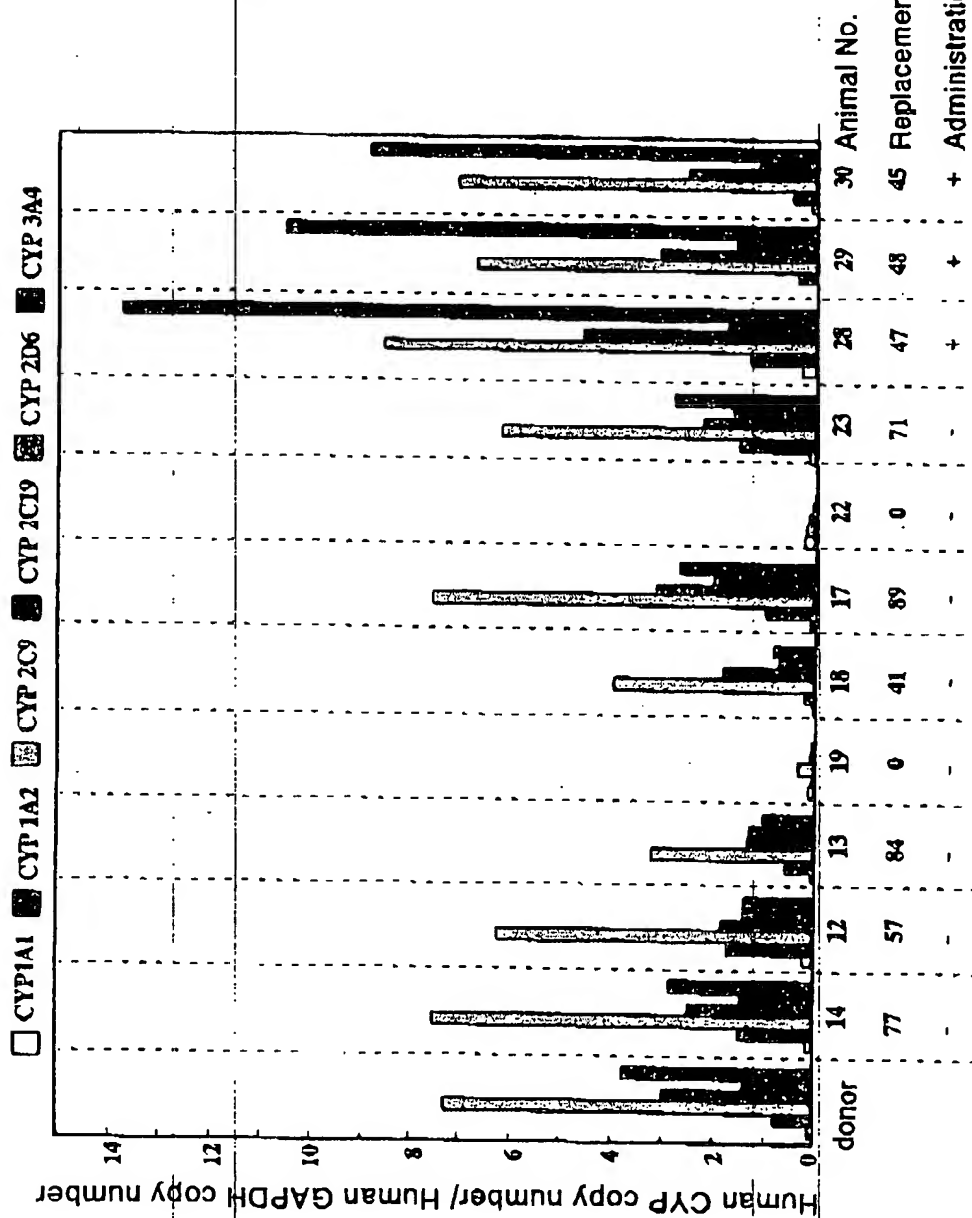
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Fig. 9



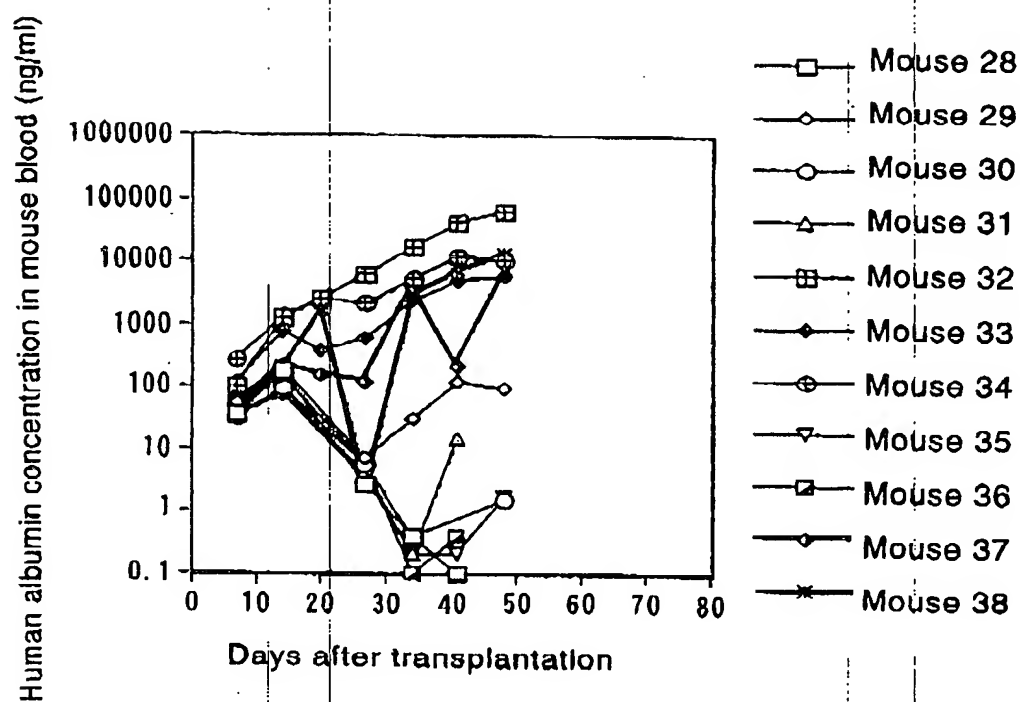
10/509032

10/20  
Fig. 10

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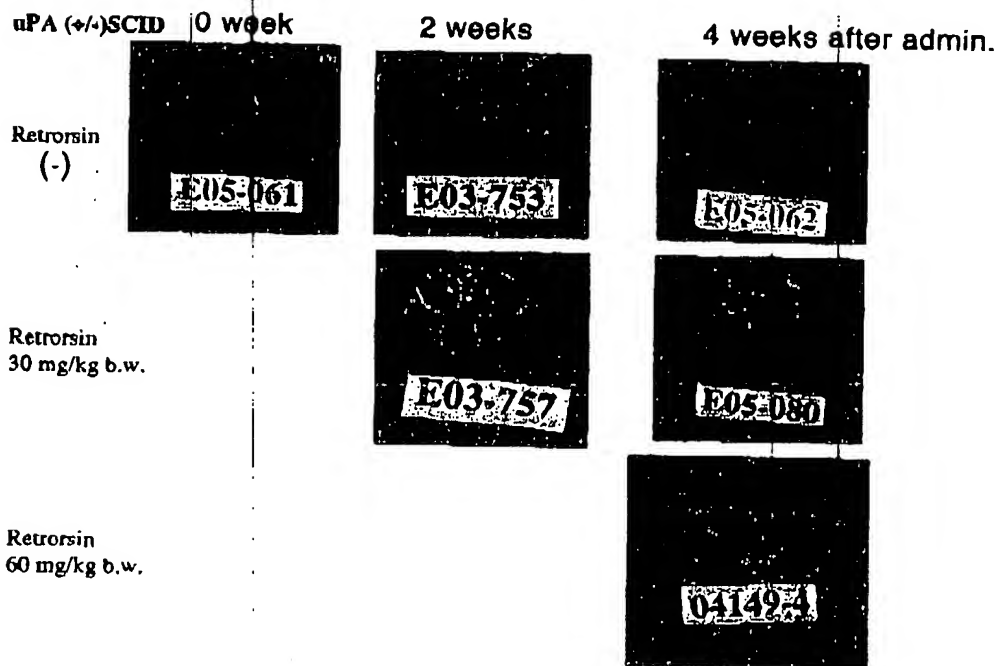
Fig. 11



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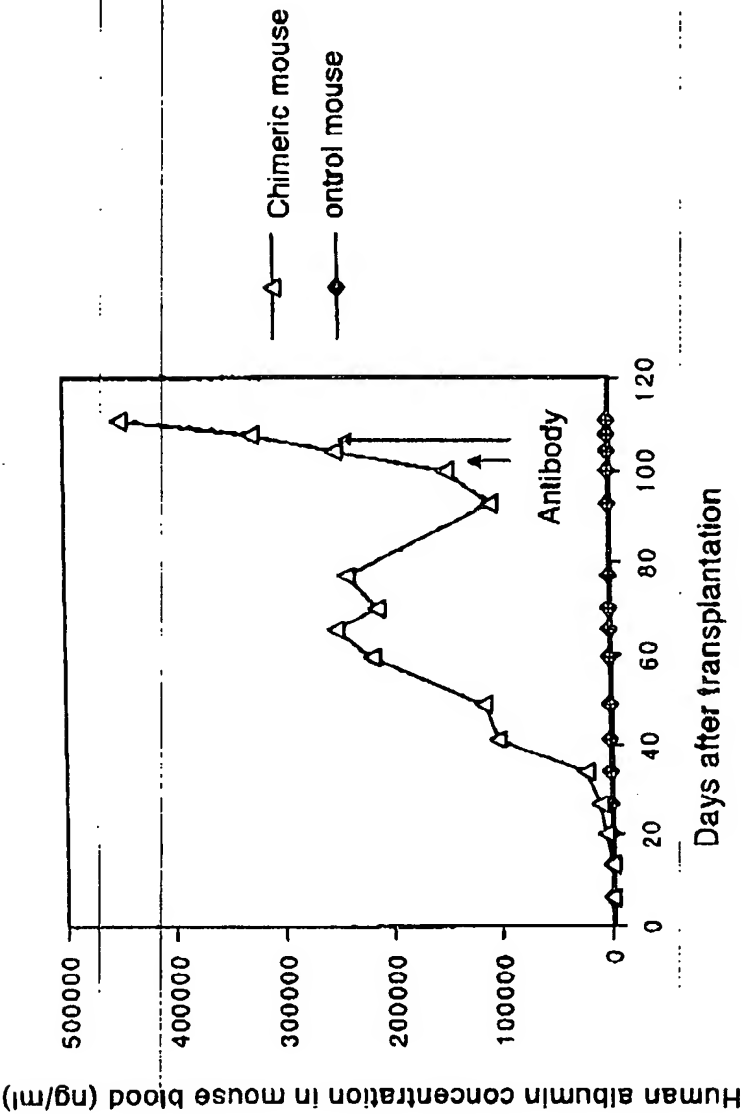
12/20

Fig. 12



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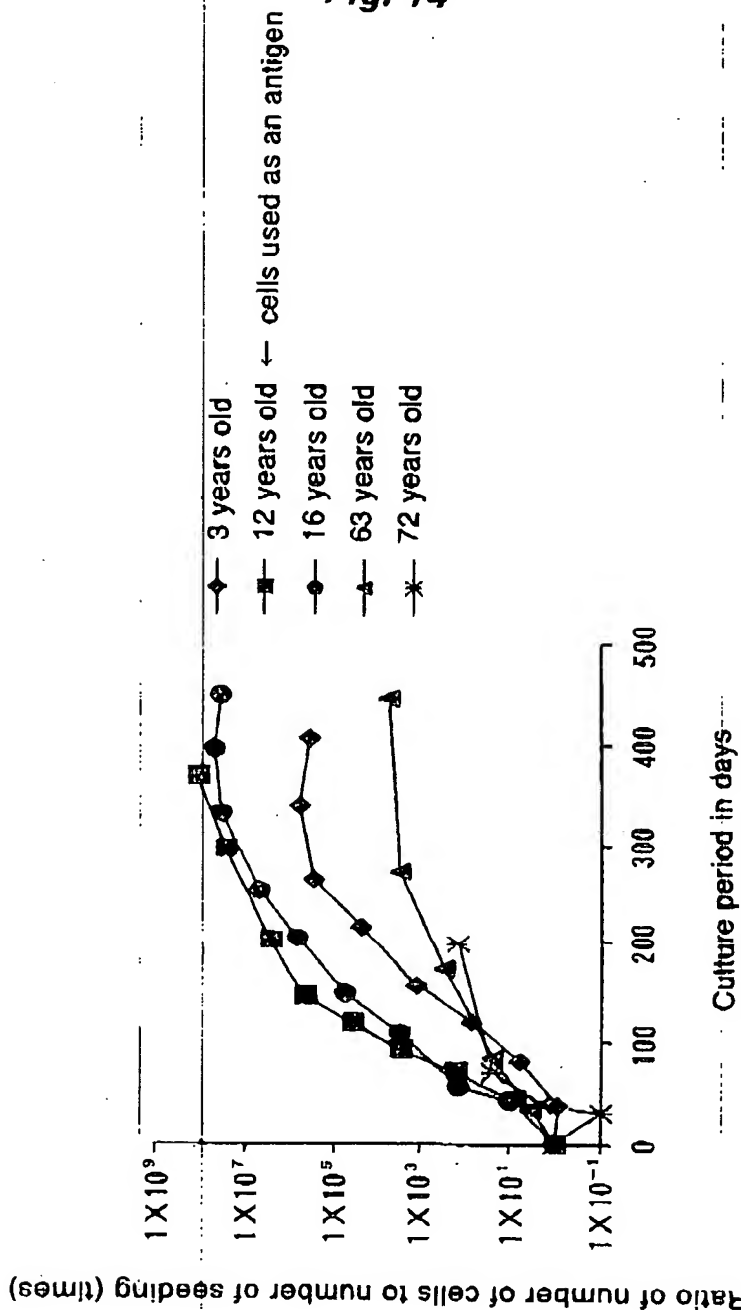
13/20  
**Fig. 13**



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Fig. 14



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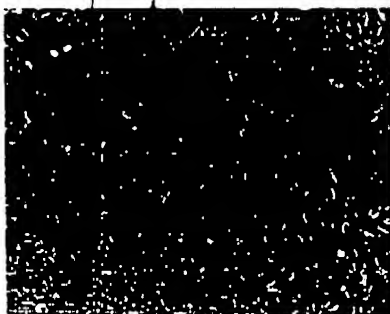
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**Fig. 15**

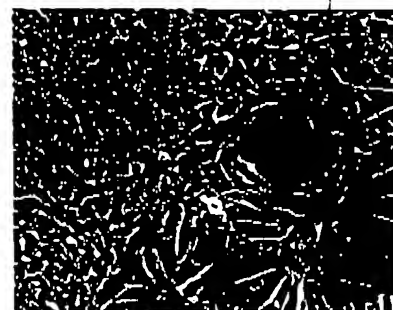
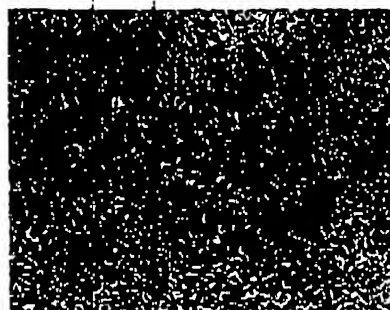
Human hepatocytes (12 years old) used as an antigen  
to prepare a monoclonal antibody

Primary culture

At 30 days

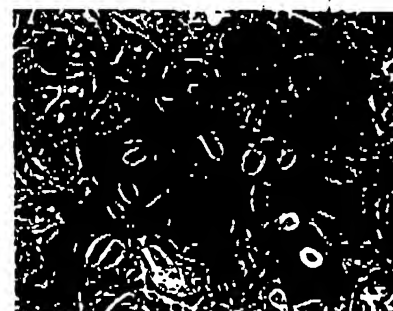


At 43 days



Subculture (3 passages) → immunizing mice

After 33 days



Bar, 100  $\mu$ m

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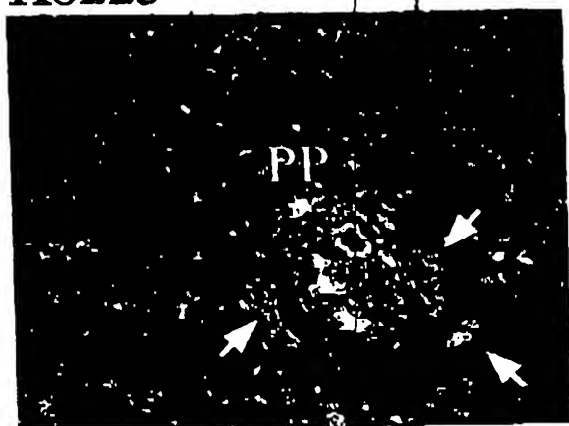
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**Fig. 16**

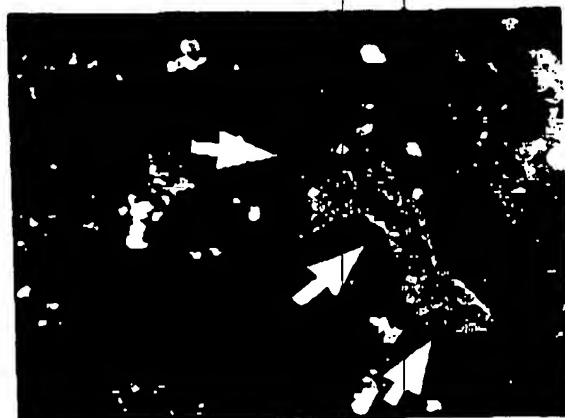
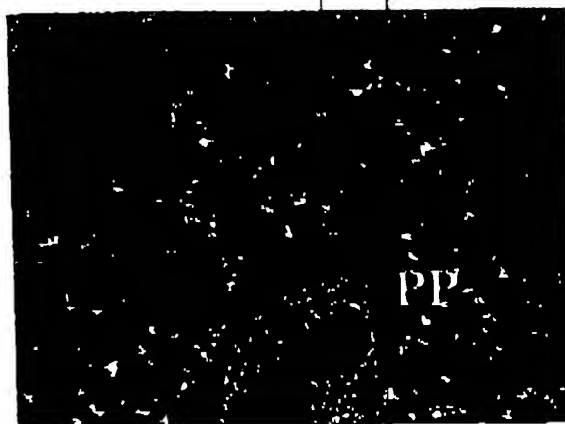
Human tissue (62 years old)

Hybridoma culture supernatant (K8223)

**K8223**



No primary antibody



PP: Portal region

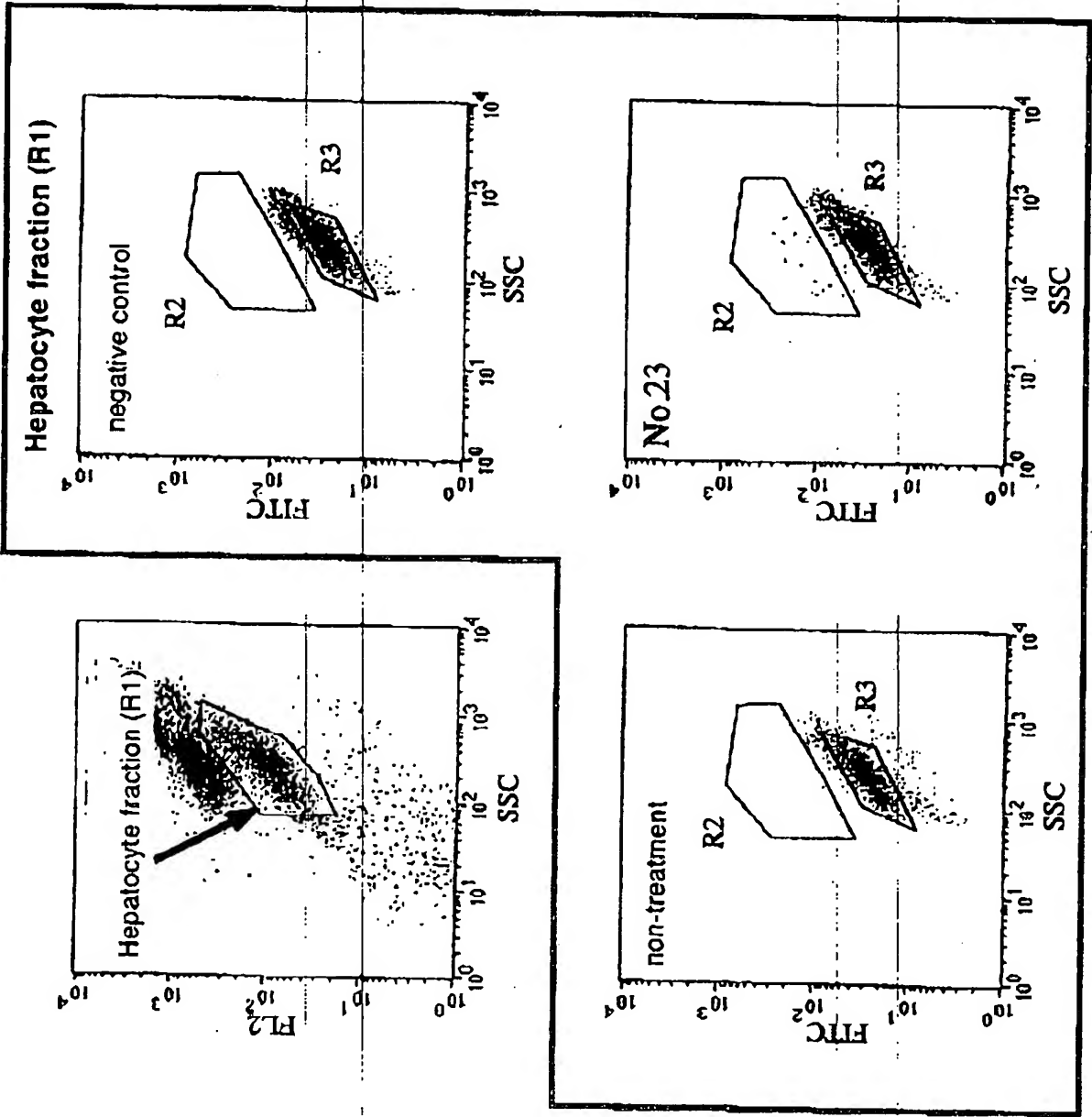
Bar, 50  $\mu$ m



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Fig. 17



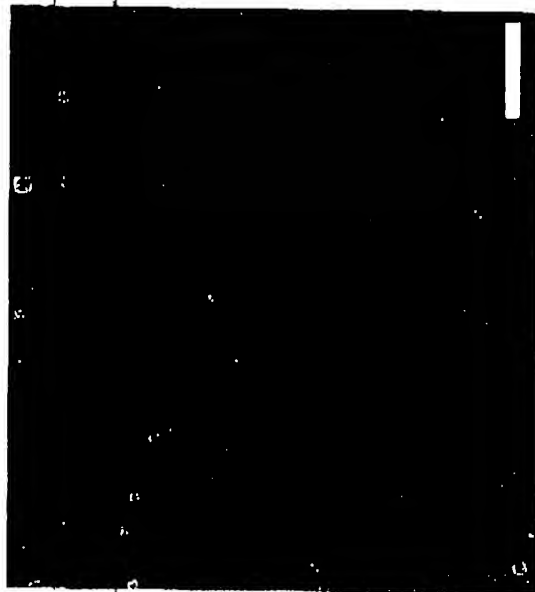
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*Fig. 18*

Hybridoma culture supernatant: No.23  
Isolated human hepatocytes (49 years old)

At day 1 in culture



At day 8 in culture



Before sorting

Bar, 100  $\mu$ m

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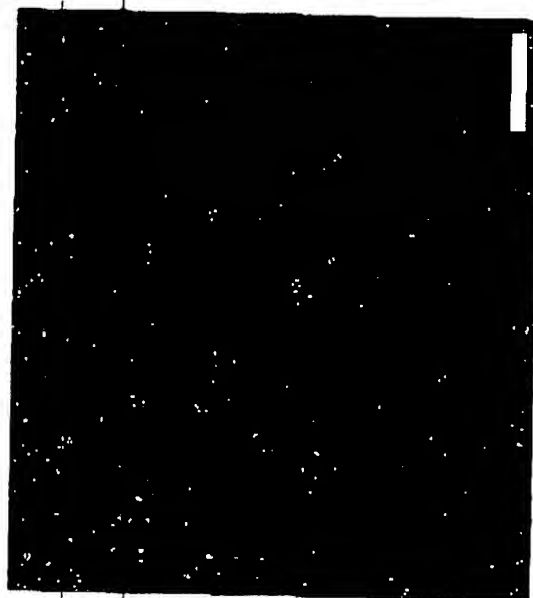
*Fig. 18/1*

At day 8 in culture



Bar, 100  $\mu$ m

At day 1 in culture



R2 fraction

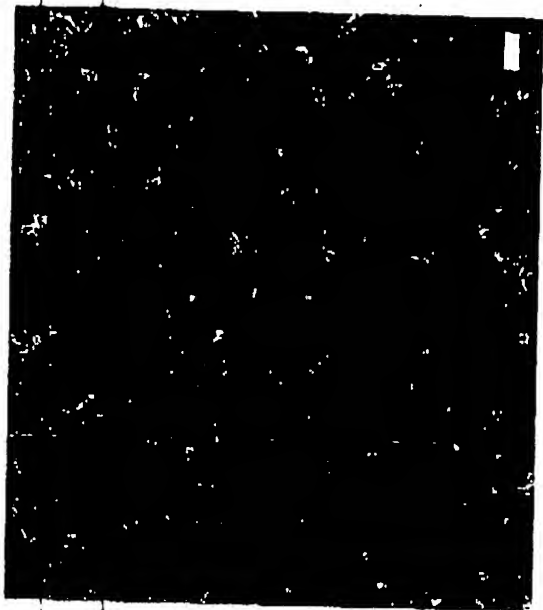
Hybridoma culture supernatant: No.23  
Isolated human hepatocytes (49 years old)

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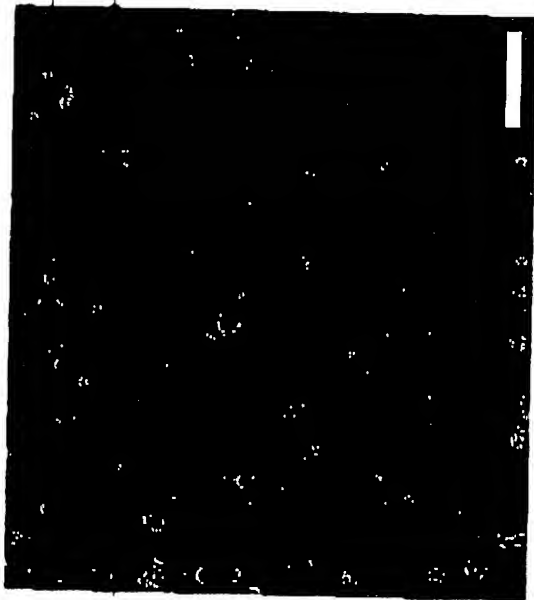
*Fig. 18/2*

At day 8 in culture



Bar, 100  $\mu$ m

At day 1 in culture

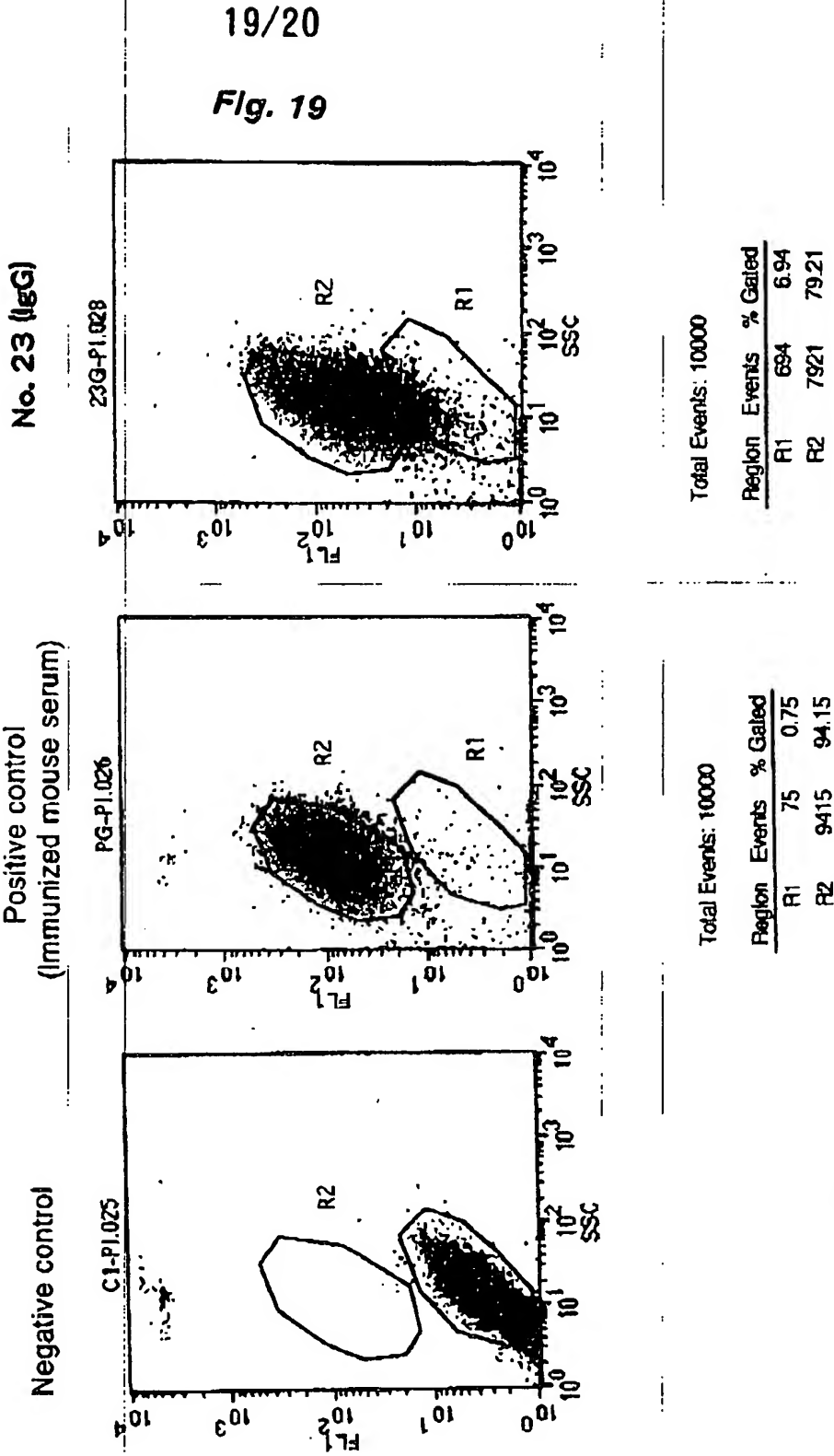


R3 fraction

Hybridoma culture supernatant: No.23  
Isolated human hepatocytes (49 years old)

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Cultured human hepatocytes  
(12 years old, male, 5 passages of subculture)



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Fig. 20

